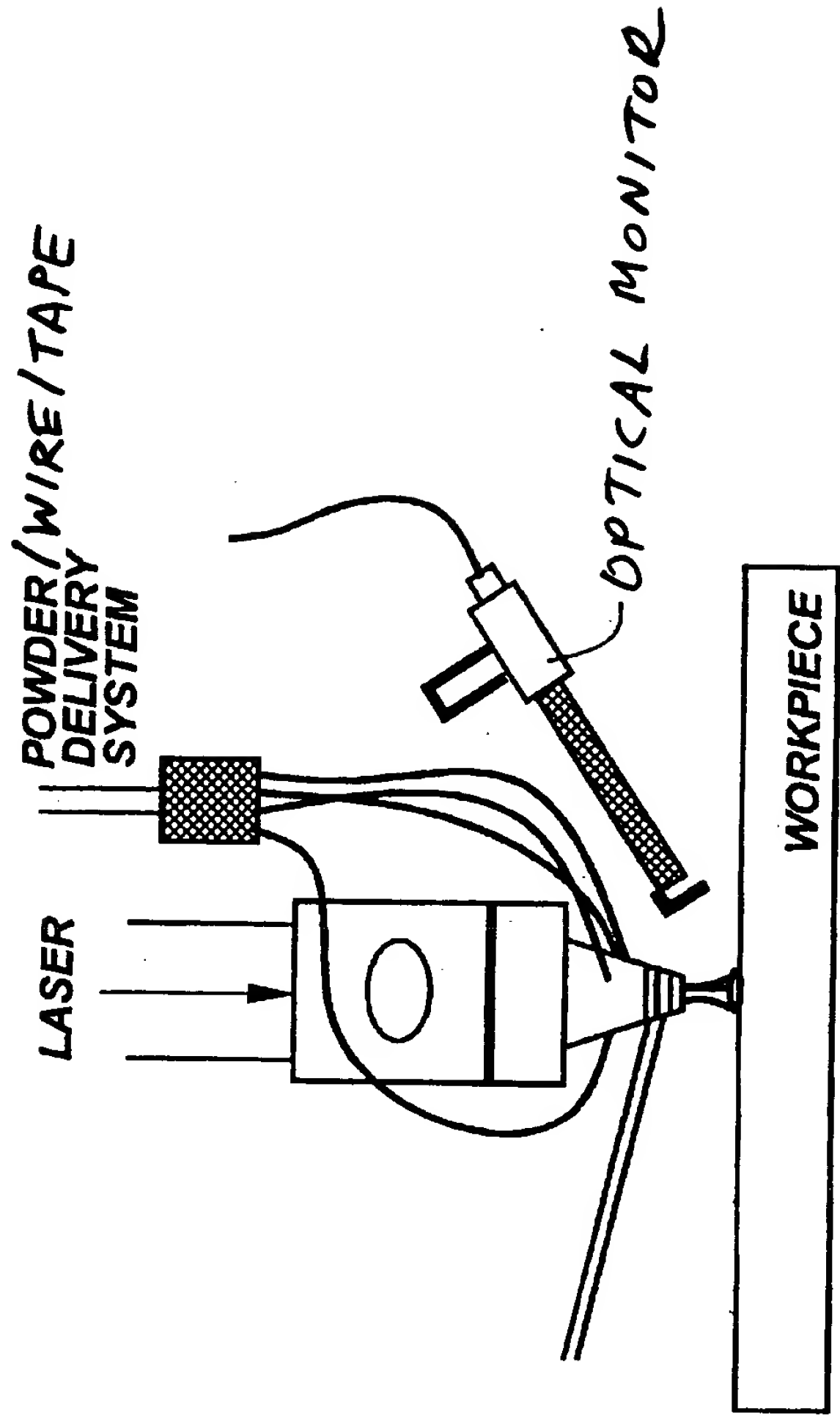


Figure - 1

Figure - 2



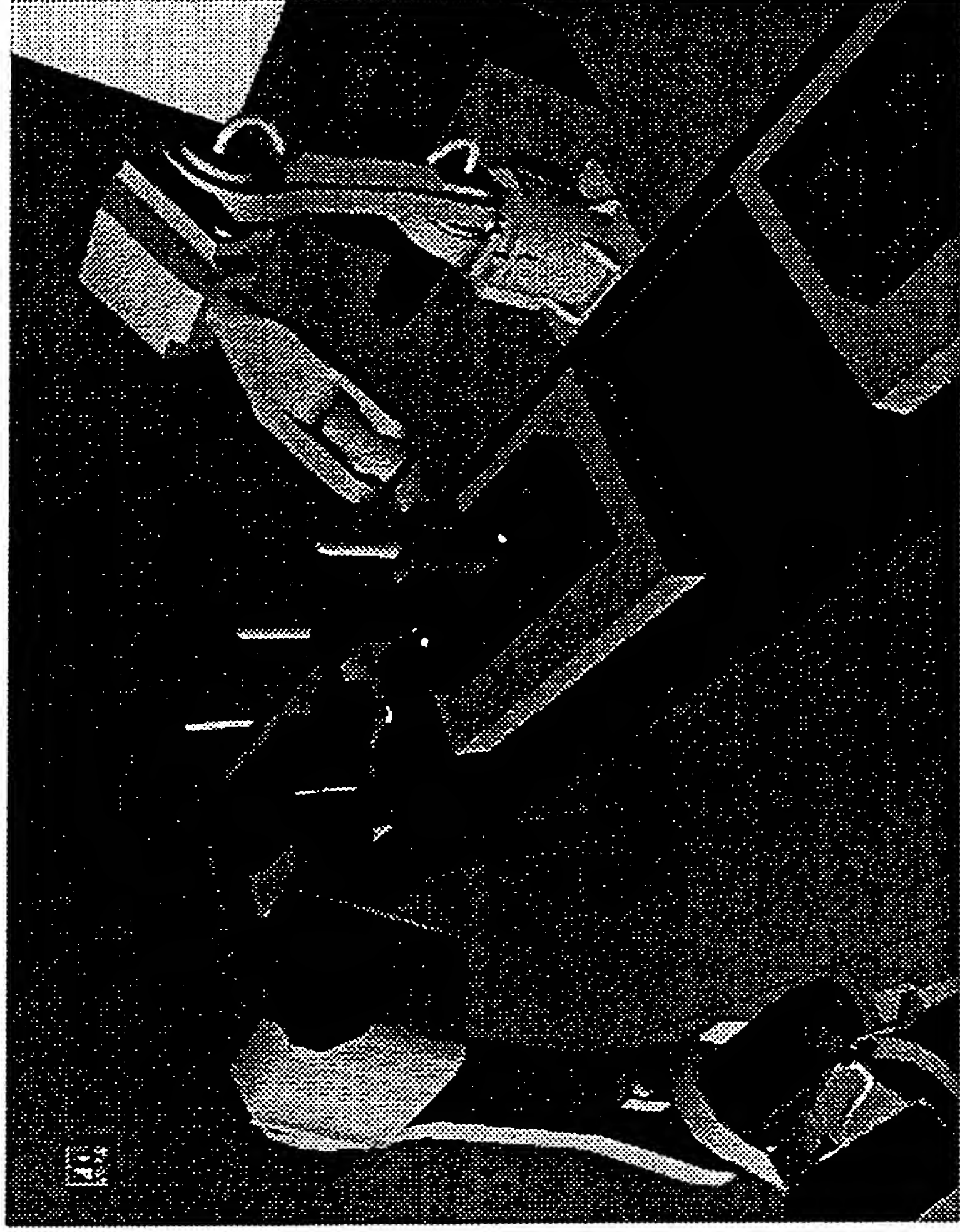


Figure 3. Robotic embodiment of DMD

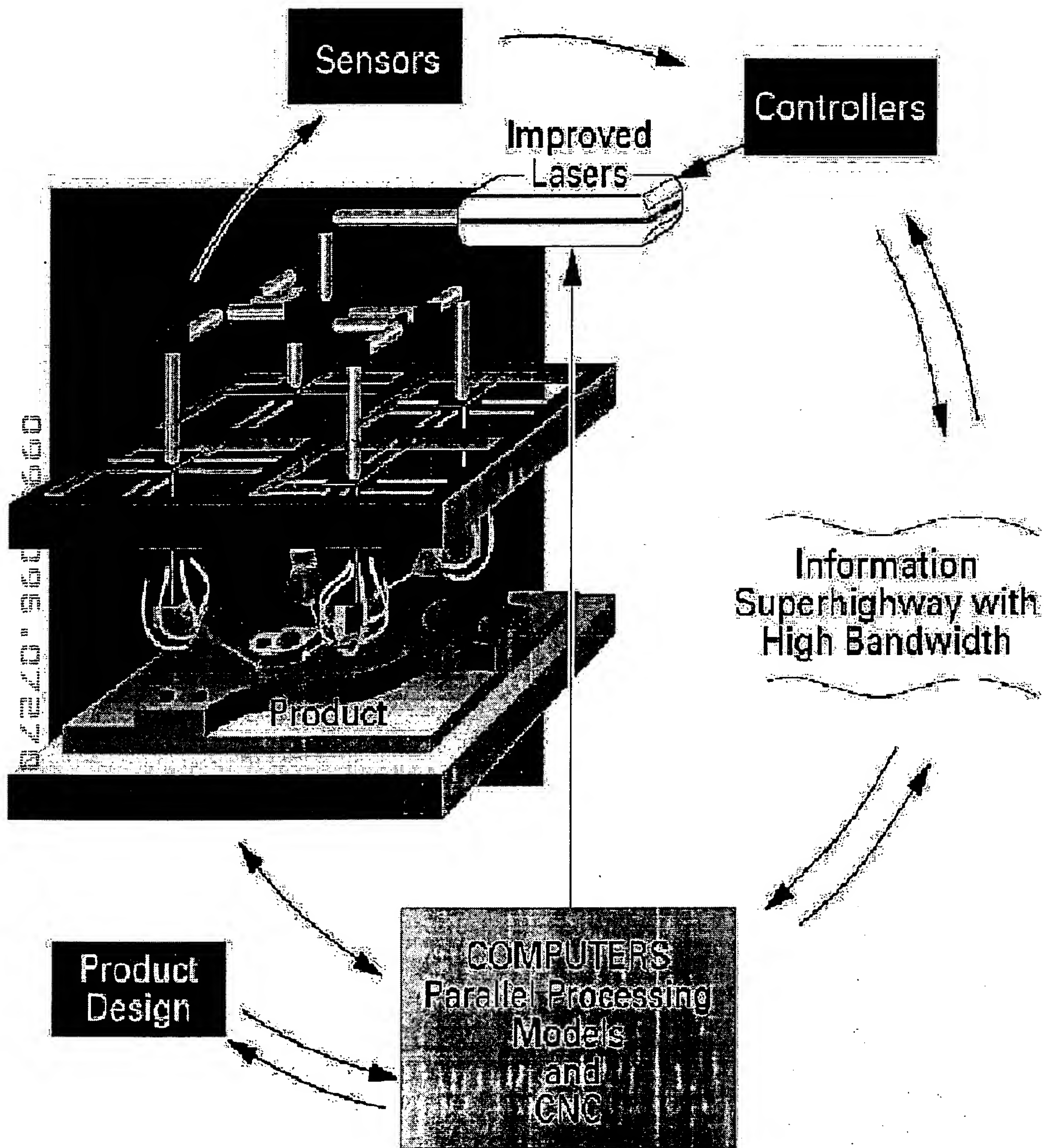


FIGURE 4

0947096.02201

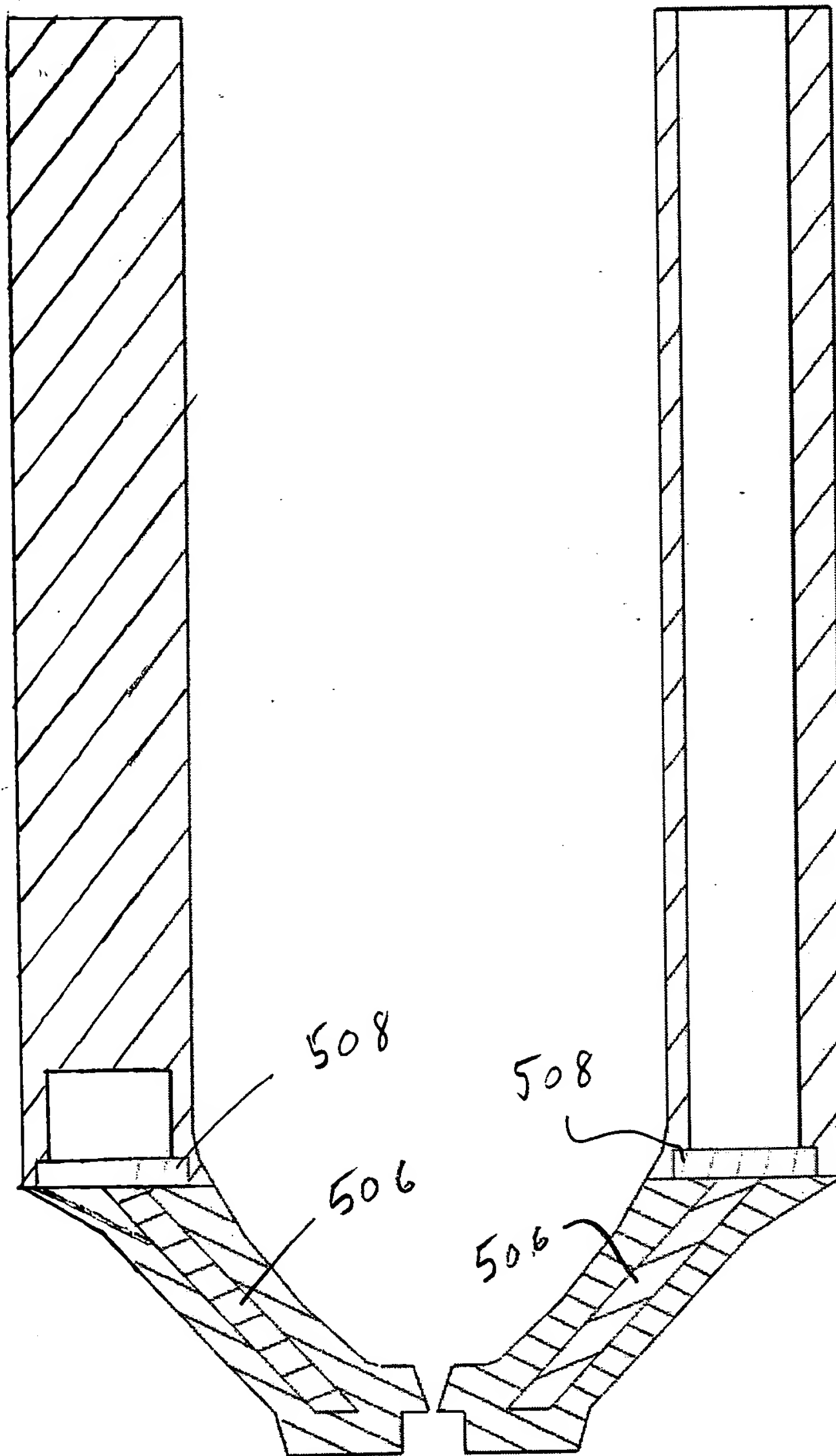


Fig-5A

10220 950250

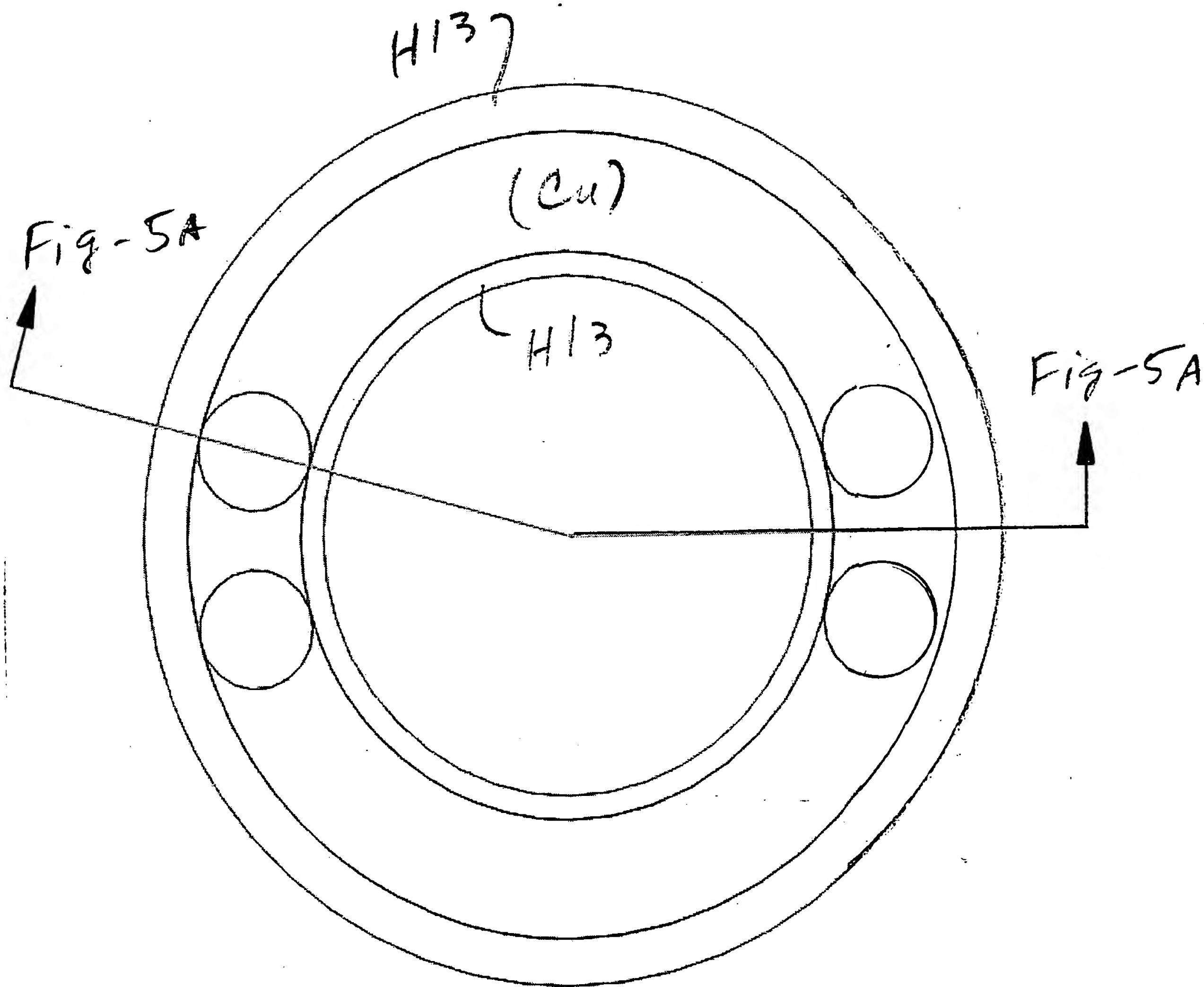


Fig-5B

Conventional
Drilled Cooling
Channels
(DCC)



Fig- 6A

Conformal
Cooling
Channels
(CCC)



Re-design of actual
automotive fuse box cover
to reduce molding cycle
times using CoolMold
Technology

Fig- 6B

FOUO 3604160

Comparative Analysis - Core Heating Time [70 deg.F - 350 deg.F]

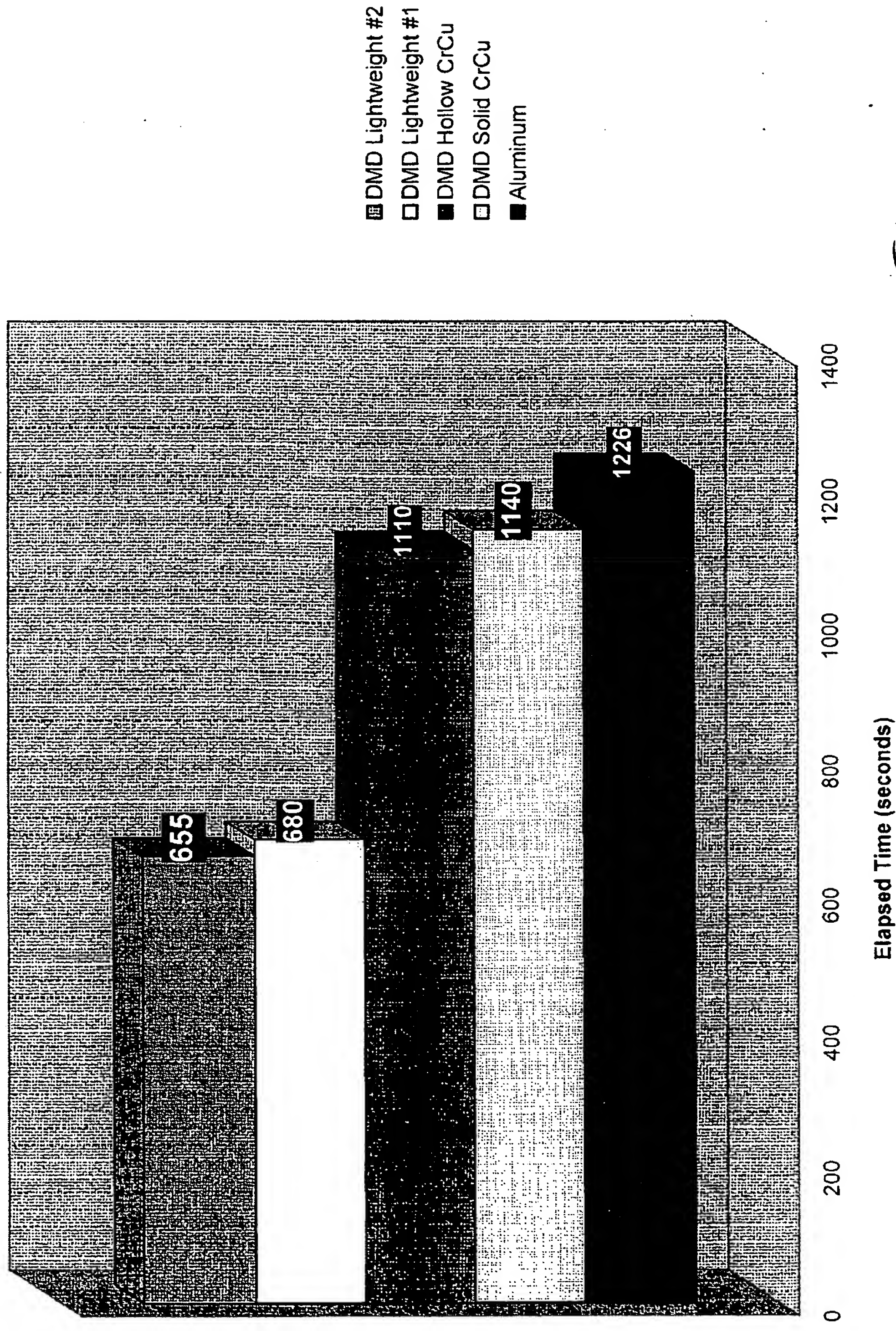


Fig-7

7.02240" 96047660

Comparative Analysis - Cavity Heating Time [70 deg.F - 350 deg.F]

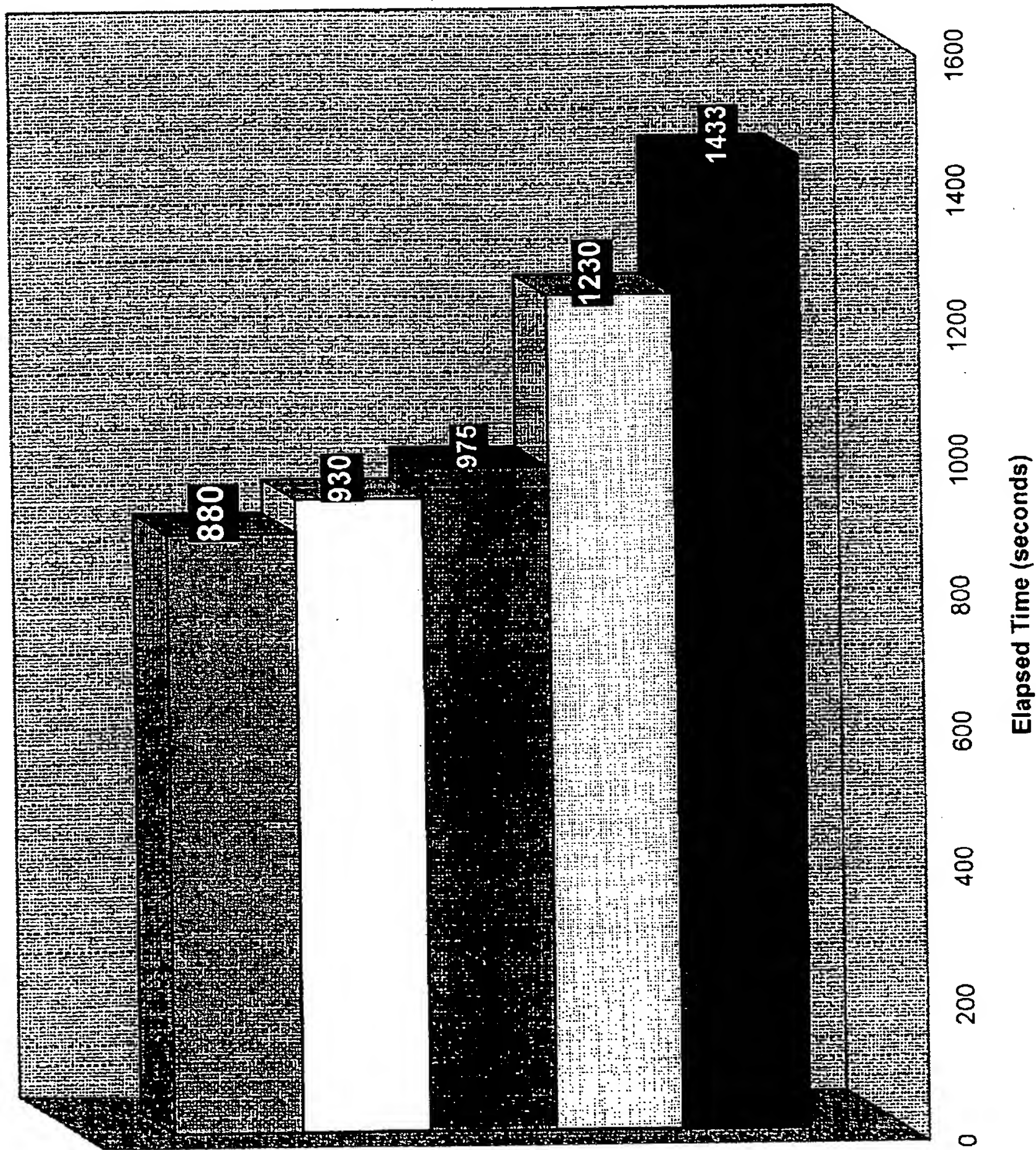


Fig-8

TOP SECRET

TEST 2-1 [DMD Hollow vs. Aluminum]

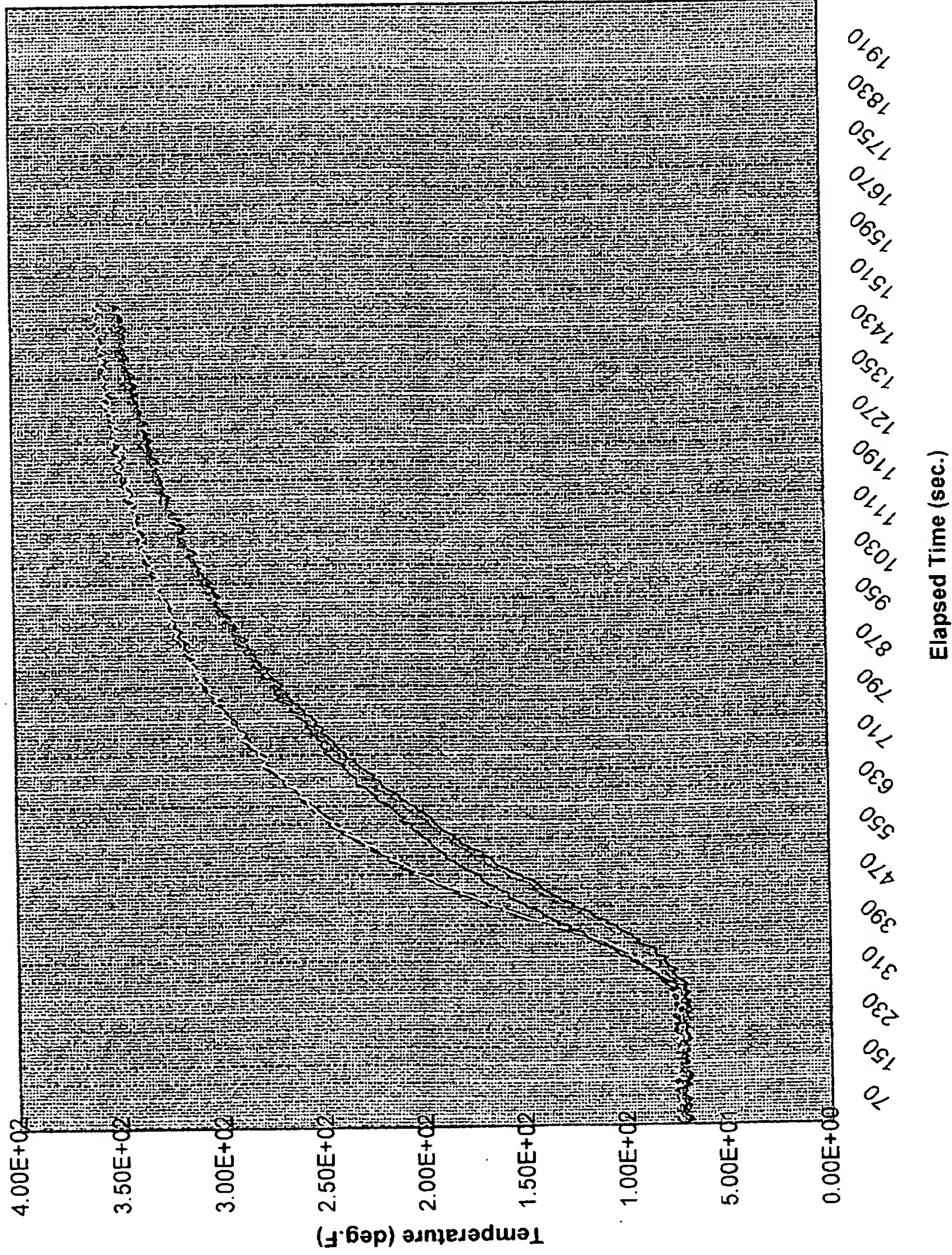


Fig-9

FD4240" 96021600

TEST 2-1 [DMD Hollow vs. Aluminum]

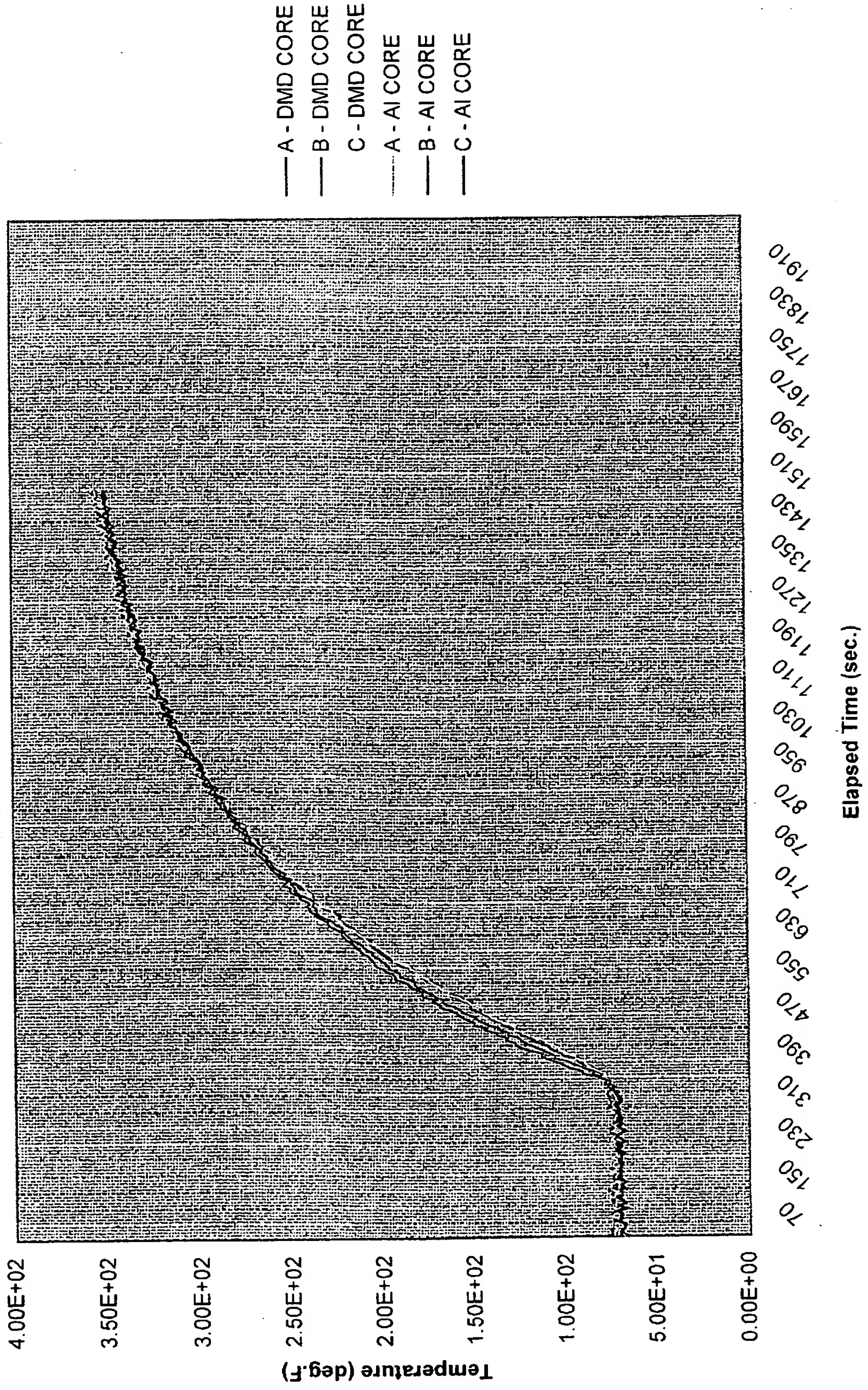


Fig-10

FOUO 56047660

TEST 3-2 [DMD Light Wt.#1 vs. Aluminum]

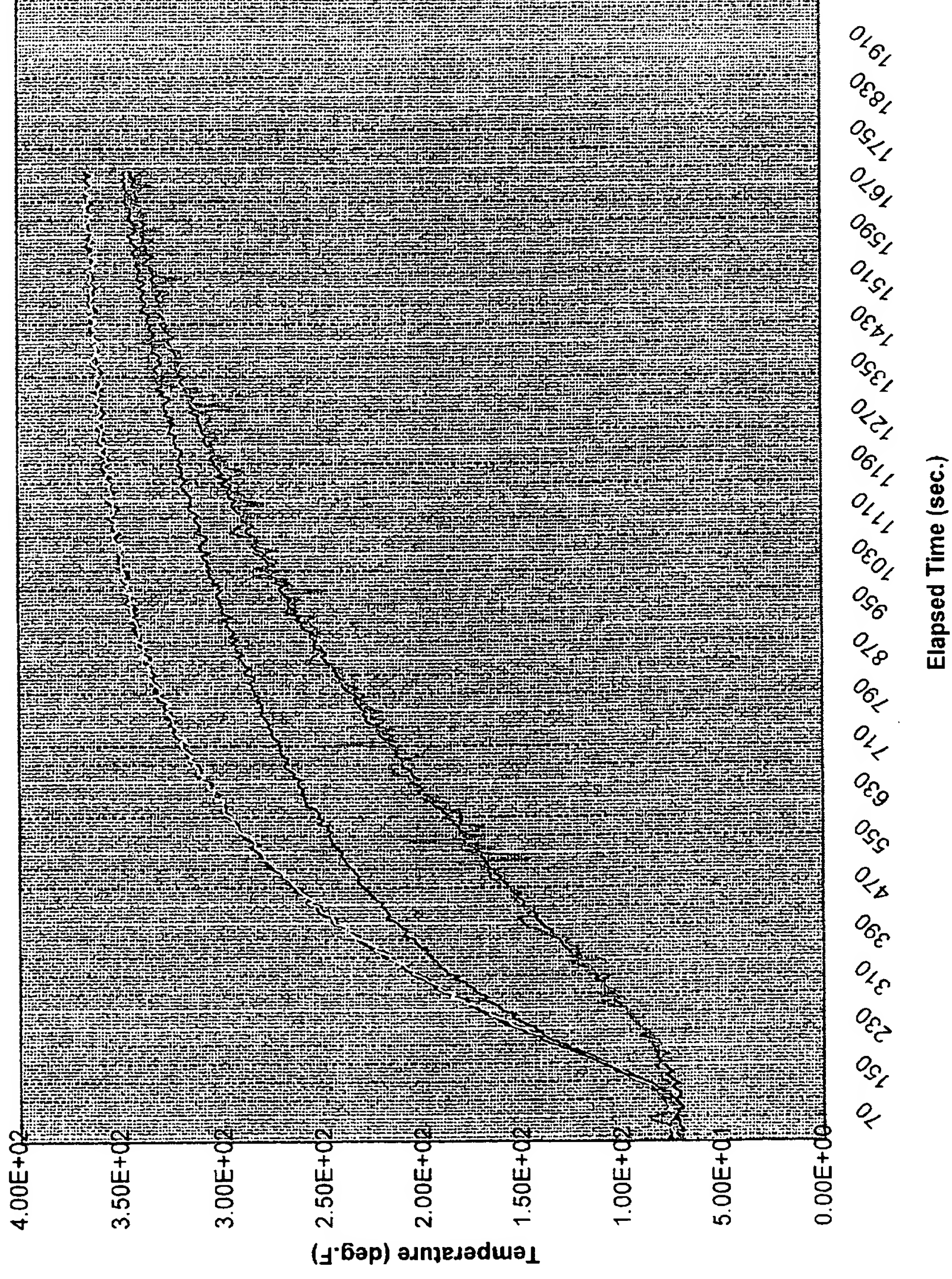


Fig-11

FOUO 9604F60

TEST 3-2 [DMD Light Wt.#1 vs. Aluminum]

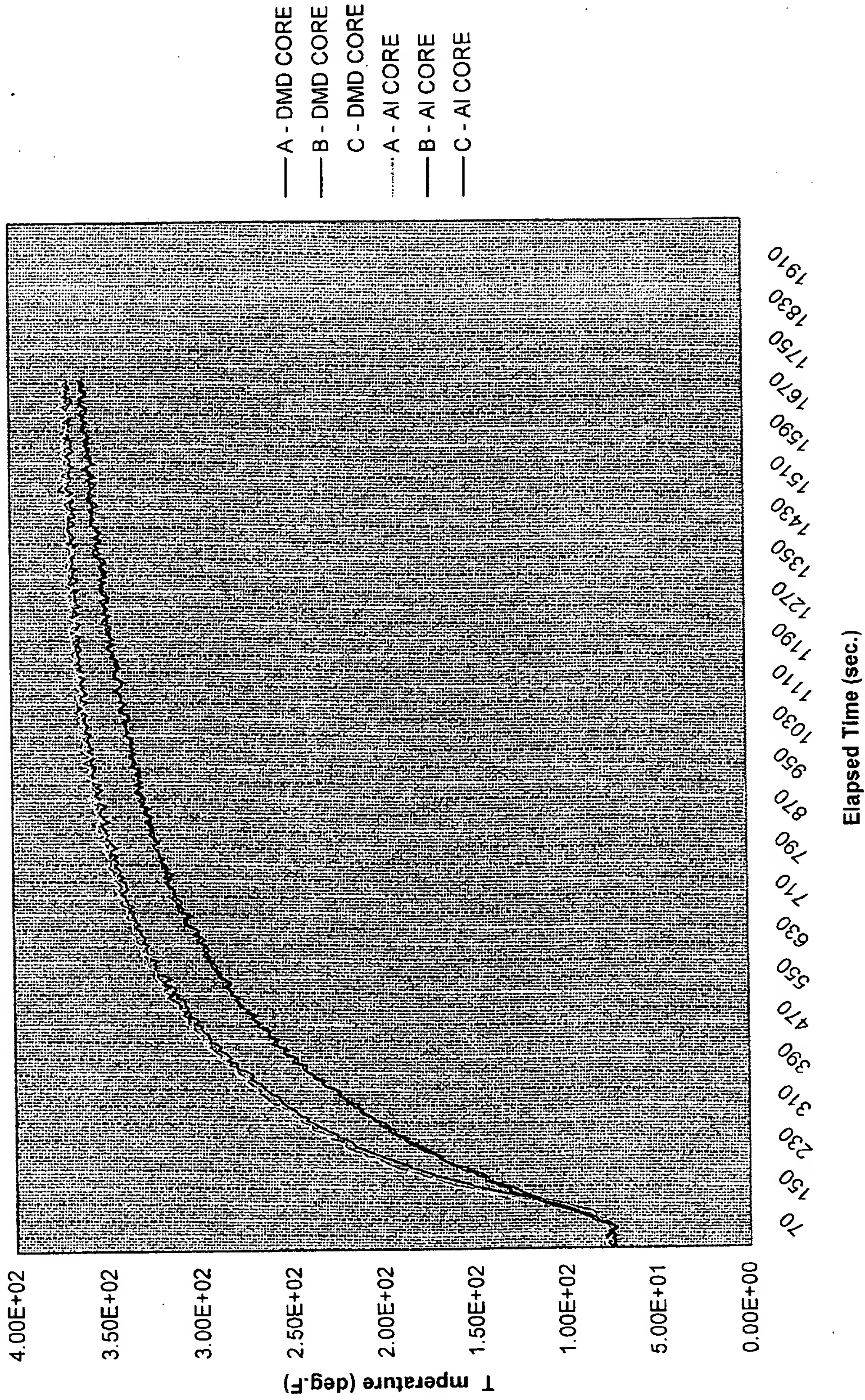
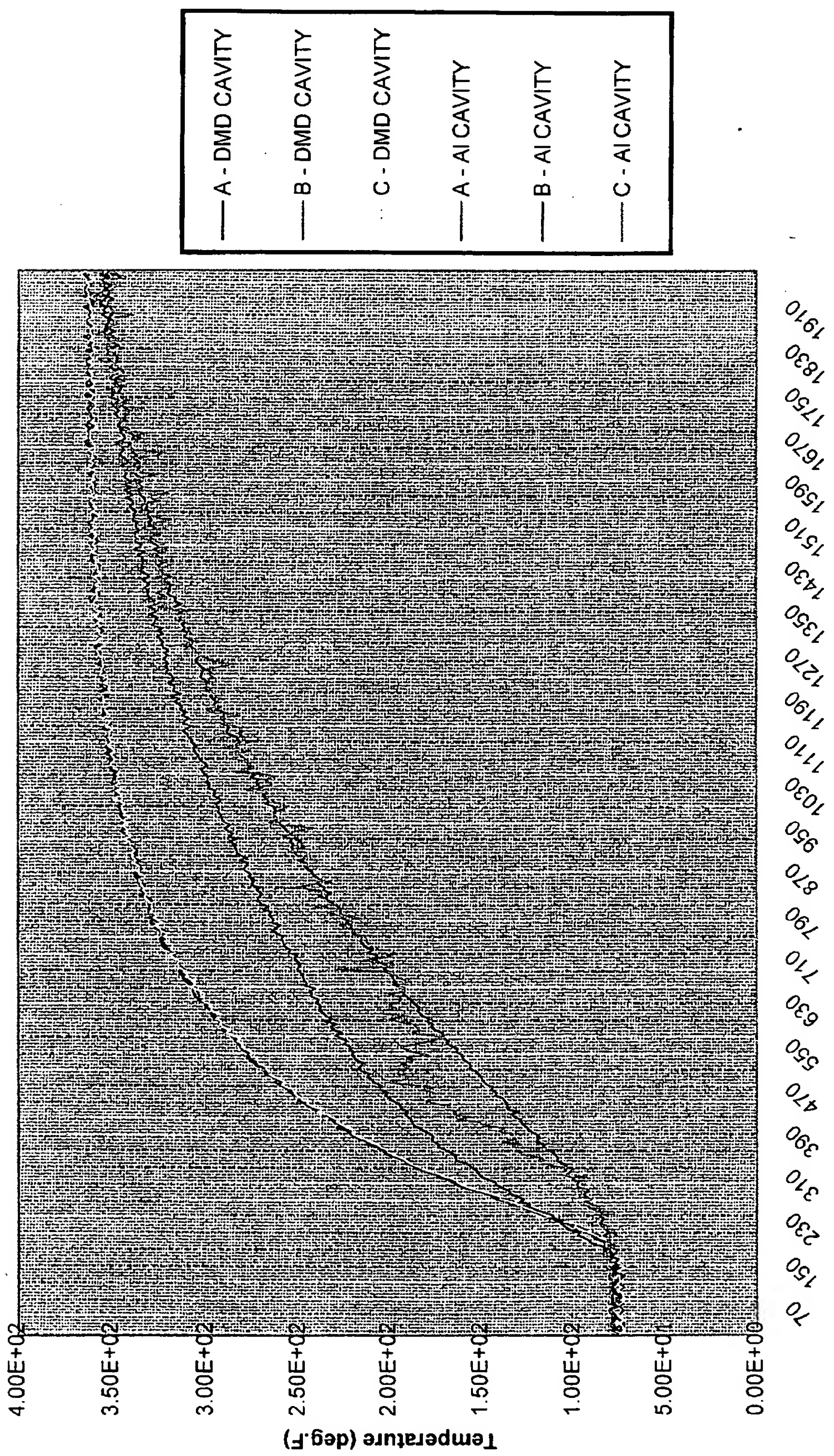


Fig-12

102220" 95027660

TEST 4-2 [DMD Light Wt.#2 vs. Aluminum]

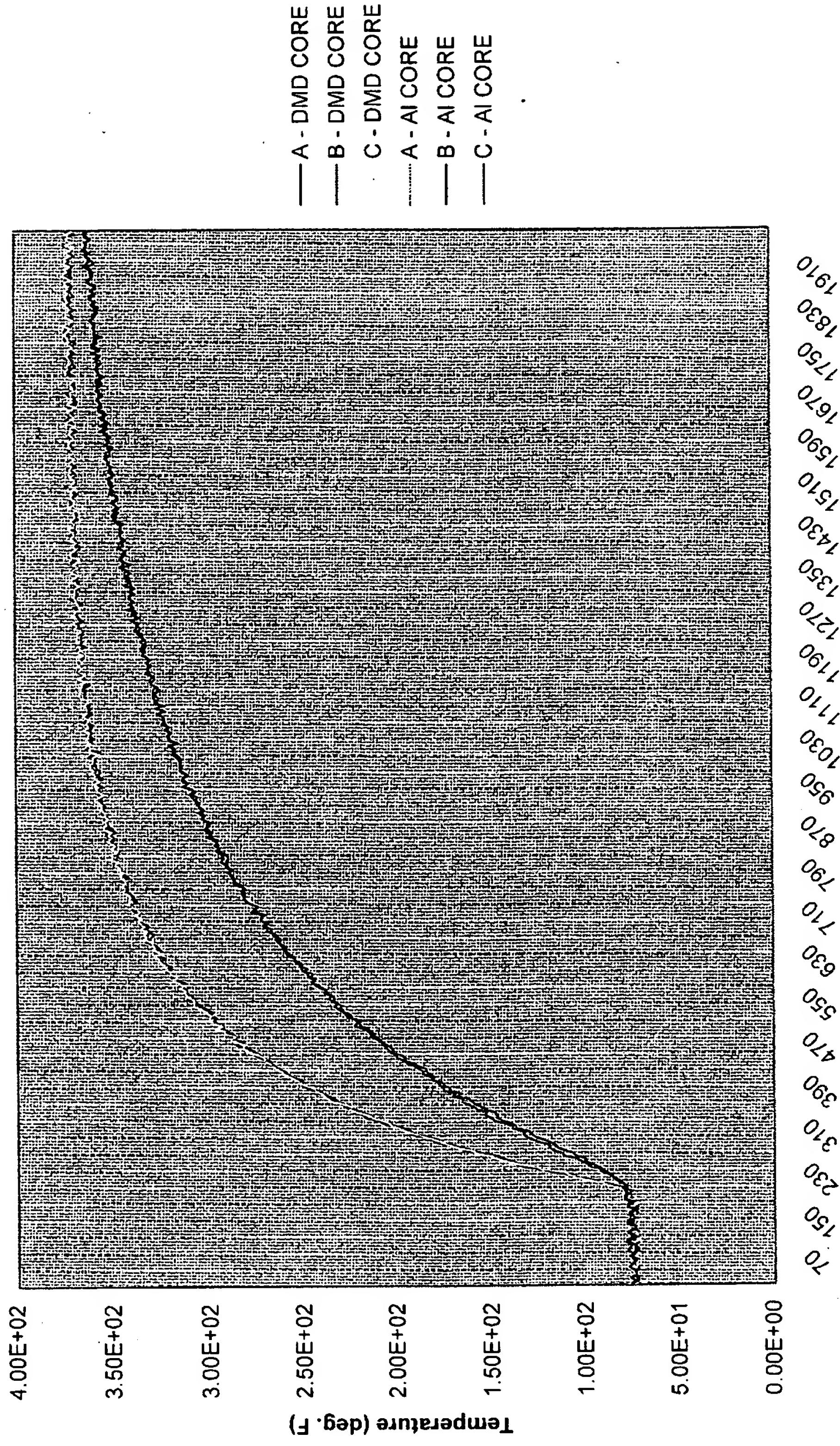


Elapsed Time (sec.)

Fig - 13

FOUO 3602F60

TEST 4-2 [DMD Light Wt.#2 vs. Aluminum]



Elapsed Time (sec.)

Fig-14